

Application Serial No.: 10/708,772
Filing Date: 03/24/2004

Reply to Office action of: 08/29/2005
Attorney Docket No.: 2003-044

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

1. (Currently amended) A system for ~~use with a~~ implementing a low velocity air burst munition and munition launcher on an existing weapon for munition launching, comprising:

a fuze for detonation of the low velocity air burst a munition that is located on a movable component of the weapon that moves upon munition launching;

a fuze setter located on a non-movable component of the weapon that does not move significantly upon munition launching, for setting a range at which the fuze detonates the low velocity air burst munition; and a flexible data communication cable connecting the fuze setter and the fuze;

wherein the data communication cable fuze calculates a flight time for the range at which the fuze is triggered from a ballistics characteristic for the low velocity air burst munition stored in the fuze transmits detonation control data from the fuze setter to the fuze; and

wherein the data communication cable flexes in compliance with the movable component of the weapon upon launching of the munition.

2. (Currently amended) The system of claim ~~[[1]]~~ 19, wherein the ~~low velocity air burst munition in the munition launcher~~ comprises a plurality of

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external electrical contacts for electrically connecting the fuze to the fuze setter.

3. (Currently amended) The system of claim ~~[[1]]~~ 2, wherein the ~~munitions~~ munition launcher comprises a plurality of chamber contacts for electrically connecting the external electrical contacts to the fuze setter.

4. (Currently amended) The system of claim ~~[[1]]~~ 2, wherein the plurality of chamber contacts in the munition launcher are electrically connected to the fuze setter via ~~[[a]]~~ the data communication cable.

5. (Currently amended) The system of claim 1, wherein the fuze setter comprises a display means for displaying the range at which the fuze is triggered.

6. (Currently amended) The system of claim 5, wherein the display ~~[[can be viewed]]~~ is viewable in daylight.

7. (Currently amended) The system of claim 5, wherein the display ~~[[can be viewed]]~~ is viewable at night.

8. (Currently amended) The system of claim 7, wherein the display ~~[[can be viewed]]~~ is viewable by a user wearing a night vision device.

9. (Original) The system of claim 1, wherein the fuze comprises a means by which the range is manually entered by a user into the fuze setter.

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10. (Currently amended) The system of claim 9, wherein the means by which the range is manually entered ~~[[can be manipulated]]~~ is manipu able by a user wearing gloves.
11. (Canceled)
12. (Currently amended) The system of claim 1, wherein the fuze is triggered upon impact with a stiff obstacle, detonating the ~~low velocity air burst~~ munition.
13. (Currently amended) The system of claim 1, wherein the fuze is triggered after a predetermined time delay that is in excess of ~~[[the]]~~ a flight time has elapsed, detonating the ~~low velocity air burst~~ munition.
14. (Currently amended) The system of claim 1, wherein the range is transmitted from the fuze setter to the ~~low velocity air burst~~ munition by means of magnetic induction.
15. (Currently amended) The system of claim 1, wherein the fuze detonates the explosive material by counting up from a zero time to ~~[[the]]~~ a flight time.
16. (Currently amended) The system of claim 1, wherein the fuze detonates the explosive material by counting down from ~~[[the]]~~ a flight time to zero.

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17. (Currently amended) The system of claim 1, wherein the fuze setter comprises ~~one or a plurality of commercially available batteries~~ a battery for ~~[[providing]]~~ supplying power to the fuze setter.

18. (New) The system of claim 1, wherein the movable component of the weapon comprises a munition launcher.

19. (New) The system of claim 18, wherein the non-movable component of the weapon comprises a weapon barrel.

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